

# **APPROPRIATIONS REQUEST FORM OREGON HOUSE DELEGATION FISCAL YEAR 2010**

**DEADLINE FOR SUBMISSION: FEBRUARY 20, 2009**

***PLEASE NOTE: As required by the House Appropriations Committee, all requests will be made public on the requesting Member's website.***

**1. Project Title:**

Biofuels: Developing a Renewable Technology & Education Center (RTEC) to Advance Biofuel Technologies, Create Jobs, Strengthen the Economy, and Develop Green Energy Solutions.

**2. Organization Name and address:**

Chemeketa Community College  
4000 Lancaster Dr. NE  
Salem, OR 97309

In Collaboration with:

Pacific Biodiesel Technologies, Inc.  
4725 Turner RD. SE  
Salem, OR 97317

**AND**

WildWood, Inc.  
4985 BattleCreek Rd. SE  
Salem, OR 97302

**3. Primary Contact name, phone number, mobile phone number, fax number and email:**

**4. Project Location Address (if different from Organization):**

The partnership has identified three available, fully serviced, properly zoned and strategically located sites. One of the properties is located adjacent to Oregon's only commercial scale biodiesel production facility and biofuels analytical lab located in Salem

**5. Please describe the requesting organization's main activities, and whether it is a public, private non-profit, or private for-profit entity:**

**Chemeketa Community College (CCC)** is a public institution of higher education serving 70,000 people per year in Marion, Polk, and Yamhill Counties. CCC is currently developing a comprehensive two-year program in Process Technology which includes specialization options such as biofuels. Graduates will enter the job market with extensive hands-on knowledge of how to control and monitor various process instrumentation and equipment in the renewable energy and biofuels industries.

**Pacific Biodiesel Technologies, Inc. (PBT)** is an established leader in the sustainable biodiesel technology industry. PBT located in Salem, designs and installs community scale biodiesel production facilities which are manufactured in Oregon and shipped throughout the US and internationally. PBT currently operates Oregon's only dedicated biofuels analytical laboratory, which is located in Salem. Since 1996 PBT has completed eleven biodiesel plant installations worldwide, four of which were designed and fabricated in Oregon, representing \$20M in income to the state and the creation of 50 jobs.

**Wildwood, Inc. (WW)** has thirty years experience planning and developing sustainable projects in Oregon, including the home of Oregon's only commercial scale biodiesel production facility, Sequential-Pacific Biodiesel. WW has extensive experience implementing and installing energy efficiency measures and available green technologies, and employs a LEED Accredited Professional to assist in green building design and best management practices.

**6. Briefly describe the activity or project for which funding is requested (please keep to 500 words or less.)**

The purpose of the project is to construct a regional, pilot-scale Biofuels processing, technology, and education center in the Mid-Willamette Valley, in a collaborative effort between Chemeketa Community College (CCC), Pacific Biodiesel Technologies, Inc. (PBT), and Wildwood, Inc. (WW). The facility will advance biofuel processing technologies and provide training and skill development opportunities. These activities will take place in a facility that houses companies that are currently engaged in developing and commercializing renewable technologies, such as biofuels, and includes Oregon's only existing biofuels analytic laboratory. RTEC will also provide dedicated space for training and professional development in process technology—creating a living laboratory for hands-on learning, research and development, and green energy production.

The facility design will focus upon producing four types of EPA 2005 categorized Liquid Transportation Biofuels: (a) Cellulosic Ethanol, (b) Algal Biodiesel, (c) Biogas, (d) Biofuel Co-product (e.g., glycerol) refinement and value-added conversions. The facility will help to promote Oregon as a leader in renewable technology and workforce development. Students will be employed and trained in the same facility. Revenues from the products developed will directly contribute to the sustainability of the project and provide seed resources for new economic development.

The project will create **450 new jobs**, in addition to expanding the employment for existing Mid-Valley renewable technology companies. Job creation activities would focus on preparing and placing new and dislocated workers in family wage jobs connected to construction, product processing, product distribution, and feedstock procurement. The results of the project will expand talent capacity in process technology throughout the region, advance "Green" Renewable Fuel technology for power generation and public sector fleets, and anchor full scale liquid renewable fuel processing capacity and distribution infrastructure in Oregon.

Biofuel processing represents one of the clearest opportunities for expansion in the Willamette Valley. This project will advance the development of the biofuels industry in our

state and advance economics associated with processing “Green” fuel products and “Green” power generation.

The proposed biofuels processing facility would become a regional Center of Excellence for process technology and provide a talent pool to support existing manufacturing and processing industries. The proposed facility would utilize existing biomass such as: agri-waste, algae and woody waste to produce 432,000 gallons of liquid Biofuels annually and provide a secondary fuel source to generate power (660 KW) as a model for operating processing facilities independently from current power grids.

**7. Has this project received federal appropriations funding in past fiscal years?**

No.

**7a. If yes, please provide fiscal year, Department, Account, and funding amount of any previous funding.**

**8. Federal agency and account from which funds are requested (Please be specific –e.g. Department of Housing and Urban Development, Economic Development Initiatives account):**

US Department of Energy, Office of Energy Efficiency and Renewable Energy

**9. What is the purpose of the project? Why is it a valuable use of taxpayer funds? How will the project support efforts to improve the economy and create jobs in Oregon?**

The proposed project has three primary outcomes:

- A. Regional economic growth.** Industries as varied as manufacturing, agriculture, and welding use process technology and rely on a well-trained workforce to locate to this region and expand.
- B. Job creation and advancement.** This facility and training program will create hundreds of sustainable new jobs, attracting talent and capital to the region, and will provide ongoing professional development for those already working in industries that rely on process technology.
- C. Green energy.** This facility will both advance existing and develop new biofuel technologies. In turn, the advances will be translated to larger, commercial scale production facilities, thus reducing America’s dependence on foreign energy sources.

**10. Have you requested funding for this project from other Members of Congress?**

**If so, who?**

Congressman David Wu

Senator Ron Wyden

**11. Funding Details:**

**a. Total project cost (all funding sources and all years):**

BIOFUEL Refinery Budget	Yr1 (7/10-6/11)	Yr2 (7/11-6/12)	Yr3 (7/12-6/13)	Total
<b>TOTAL</b>	<b>6,747,010</b>	<b>2,108,920</b>	<b>1,807,860</b>	<b>\$10,663,790</b>

**b. Amount being requested for this project in Fiscal Year 2010:**

\$6,747,010

**c. What other funding sources (local, regional, state) are contributing to this project or activity? (Please provide specific dollar amount or percentage.)**

Partners are providing space, usage of existing facilities and equipment, assistance with program design, and access to equipment.

**d. Do you expect to request federal funding in future years for this project?**

Yes

**e. Breakdown/budget of the amount you are requesting for this project in FY 2010. (e.g. salary \$40,000; computer \$3,000):**

BIOFUEL Refinery Budget	Yr1 (7/10-6/11)
Program	197,780
Construction	2,500,000
Capital Equipment	3,900,000
Planning	24,230
Subcontracts	125,000
<b>TOTAL</b>	<b>6,747,010</b>

**f. Please list public or private organizations that have supported/endorsed this project:**

Wildwood Inc.  
John Miller  
503-363-9316

Pacific BioDiesel  
Robert King  
808-877-3144

SEDCOR (Strategic Economic Development Corporation)

**g. Is this project scalable? (i.e. if partial funding is awarded, will the organization be able to use the funds in FY 2010?):**

Yes, some aspects of this project are scalable.

## **Supporting Documents: Annotated Bibliography**

*May 2008, Analysis of Clean Energy Workforce Needs and Programs in Oregon, Office of the Governor Kulongoski, Used with permission of 3EStrategies, [www.3strategies.org](http://www.3strategies.org), copyright © 20083EStrategies*

“Oregon possesses a tremendous diversity of renewable energy resources and a solid base of clean energy companies. The state has an opportunity to become a national leader in the clean energy economy generating innovative, family wage jobs and providing solutions to the pressing energy environmental issues of our age, In order to do so it must develop a strong workforce for clean energy companies” P.4

“Oregon is national leader in biofuels legislation. Biodiesel markets have doubled annually since 2002.” P.23

“The industry includes a myriad of agricultural jobs related to seed-crop production, positions associated with seed crushing and oil refining, trucking and distribution jobs, fuel station attendants and a variety of support positions.” P.23

*July 2007, BioFuel Potential in Oregon: Background and Evaluation of Options, Oregon State University Extension Service, Special Report 1078*

“Oregon has established its own goals for renewable energy. They include using more ethanol and biodiesel in transportation and reducing green house gas (GHG) emissions by 1 million metric tons by 2025. Oregon’s renewable energy Action Plan includes goals for a 2 percent of diesel consumption from biodiesel and 15 million gallons of biodiesel produced from Oregon sources annually.” P.7

*February 2008, Biofuels in Oregon and Washington: A business Case Analysis of Opportunities and Challenges, Pacific Northwest National Laboratory*

“The national goal is to produce 30 percent of today’s fuel needs, or approximately 60 billion gallons per year, from biomass by 2030 (Us Department of Energy) 2007). Implementing the national goal at the regional level (i.e. using biomass to supply as much as 30 percent of the fuel consumed in Oregon and Washington) would equate to a need for more than 2 billion gallons of liquid fuel from biomass annually.” P.9

“....Alaskan crude oil production that is the source of most of the region’s fuel is expected to decline in the future and there will be a need for replacement supplies that do require supertankers for delivery. Clearly, growing demand and constrained petroleum supplies present an opportunity for a biofuels industry. However, in order to make a significant contribution to the region’s need, a new industry must be built that can reliably supply significant quantities of fuel, perhaps the equivalent of more than 2 billion gallons per year, on a sustainable basis.” P.14

“New approaches and technologies will be required to build a sustainable economically viable biofuels industry that contributes significantly toward meeting the region’s increasing fuel needs.” P.89